

INTISARI

Penelitian ini bertujuan untuk mengkaji pengaruh beberapa konsentrasi ekstrak rumput laut terhadap pertumbuhan stek batang singkong dan menentukan konsentrasi ekstrak rumput laut yang paling efektif untuk pertumbuhan stek batang singkong.

Penelitian ini dilakukan dengan metode eksperimental menggunakan percobaan faktor tunggal, dengan Rancangan Acak Lengkap (RAL), terdiri dari 5 perlakuan yaitu penambahan 2000 ppm Ekstrak Rumput Laut, 3000 ppm Ekstrak Rumput Laut, 4000 ppm Ekstrak Rumput Laut, 300 mg/l Rootone-F dan Air. Parameter yang diamati meliputi jumlah tunas, panjang tunas, jumlah daun, luas daun, panjang akar, jumlah akar, bobot segar akar, bobot kering akar, bobot segar akar, bobot kering akar, berat segar tunas dan berat kering tunas.

Hasil penelitian menunjukkan antara penambahan 2000 ppm ekstrak rumput laut, 3000 ppm ekstrak rumput laut, 4000 ppm ekstrak rumput laut, 300 mg/l Rootone-F dan air pada parameter jumlah tunas, panjang tunas, jumlah daun, luas daun, panjang akar, jumlah akar, bobot segar akar, bobot kering akar, bobot segar tunas menunjukkan tidak ada beda nyata. Rerata hasil analisis sidik ragam pada penambahan 3000 ppm ekstrak rumput laut lebih tinggi pertumbuhannya pada parameter jumlah tunas, jumlah daun, luas daun, jumlah akar dan bobot kering akar. Sedangkan parameter panjang tunas, panjang akar, bobot segar akar dan bobot segar tunas paling tinggi ditunjukkan pada penambahan 300 mg/l Rootone-F.

Kata kunci: Ekstrak rumput laut, Stek singkong,

ABSTRACT

This research aims to examine the effect of several seaweed extract concentrations on the growth of cassava stem cuttings and determine the most effective concentration of seaweed extract for the growth of cassava stem cuttings.

This research was conducted using an experimental method using a single factor experiment, with Completely Randomized Design (CRD), consisting of 5 treatments namely adding 2000 ppm Seaweed Extract, 3000 ppm Seaweed Extract, 4000 ppm Seaweed Extract, 300 mg/l Rootone-F and water. Parameters observed included shoot number, shoot length, leaf number, leaf area, root length, root number, root fresh weight, root dry weight, root fresh weight, root dry weight, shoot fresh weight and shoot dry weight.

The results showed an addition of 2000 ppm seaweed extract, 3000 ppm seaweed extract, 4000 ppm seaweed extract, 300 mg/l Rootone-F and water on the parameters of the number of shoots, shoot length, leaf number, leaf area, root length, number root, fresh root weight, root dry weight, fresh shoot weight showed no significant difference. The mean results of analysis of variance in the addition of 3000 ppm seaweed extract were higher in growth in parameters of number of shoots, number of leaves, leaf area, number of roots and root dry weight. While the parameters of shoot length, root length, root fresh weight and the highest fresh shoot weight were shown in the addition of 300 mg/l Rootone-F.

Keywords: Seaweed extract, Cassava cuttings